

CLAIMS

What is claimed is:

1. A developer for an image forming apparatus, comprising:
a developing casing having a plurality of toner chambers to contain a toner;
a plurality of agitators rotatably disposed in the toner chambers to agitate and transfer the toner, each of the agitators comprising a resilient wing;
a toner supplying roller rotatably disposed adjacent to one of the toner chambers of the developing casing;
a developing roller to transfer and attach the toner supplied from the toner supplying roller to a photoconductive medium; and
at least one partition disposed in the developing casing to separate each of the toner chambers, each of the at least one partitions having a plurality of slits to transfer the toner from one toner chamber to another toner chamber therethrough while the agitators rotate.
2. The developer of claim 1, wherein each of the partitions has a plurality of ribs corresponding to the plurality of slits.
3. The developer of claim 2, wherein each of the plurality of ribs is sloped upward at a predetermined angle from a lower portion of the slits.
4. The developer of claim 2, wherein when the agitators rotate, the resilient wings of the agitators resiliently contact the ribs so as to splash the toner upward, and the toner being splashed drops due to a gravity and moves through the slits.
5. The developer of claim 2, wherein the plurality of toner chambers are filled with a predetermined quantity of toner.
6. The developer of claim 2, wherein the developing casing is sealed such that the plurality of toner chambers do not leak.

7. The developer of claim 4, wherein each of the plurality of resilient wings is formed such that each resilient wing is slightly bent while in contact with an inner wall of one of the plurality of toner chambers.

8. The developer of claim 1, wherein each of the plurality of partitions is a single planar member comprising a first end and a second end, each partition being disposed in the developing casing such that the first end is combined with a top of the developing case and the second end is combined with a bottom of the developing case.

9. The developer of claim 4, wherein the slits are formed with a width and a height both being greater than 2mm.

10. The developer of claim 1, wherein each of the partitions comprises:
a lower wall member extended upward from a lower portion of the developing casing;
an upper wall member extended downward from an upper portion of the developing casing so as to be at a predetermined distance from the lower wall member; and
a plurality of guide ribs disposed to form the plurality of slits between the lower wall member and the upper wall member.

11. The developer of claim 10, wherein each of the plurality of guide ribs is formed to slope downward from the upper wall member to the lower wall member.

12. The developer of claim 10, wherein, while the agitators rotate, the resilient wings resiliently contact the lower wall members and splash the toner upward in the toner chamber.

13. The developer of claim 12, wherein the splashed toner is transferred to a first one of the plurality of toner chambers to a second one of the plurality of toner chambers by gravity.

14. The developer of claim 13, wherein if the first one of the plurality of toner chambers is full of toner, the splashed toner is not transferred.

15. The developer of claim 10, wherein the slits are formed with a width and a height both greater than 2mm.